

Table CT6. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2016, Virginia

Year	Coal	Natural Gas <sup>a</sup>	Petroleum						Hydro-electric Power <sup>e,f</sup>	Biomass		Geo-thermal <sup>f</sup>	Solar <sup>f,i</sup>	Retail Electricity Sales	Net Energy <sup>f,j</sup>	Electrical System Energy Losses <sup>k</sup>	Total <sup>f,j</sup>
			Distillate Fuel Oil	HGL <sup>b</sup>	Motor Gasoline <sup>c</sup>	Residual Fuel Oil	Other <sup>d</sup>	Total		Wood and Waste <sup>f,g</sup>	Losses and Co-products <sup>h</sup>						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels						Million kWh	Million kWh							
1960	4,503	22	2,133	275	882	5,739	3,931	12,961	79	--	--	--	NA	3,786	--	--	--
1965	5,824	36	2,977	301	838	6,754	5,372	16,241	87	--	--	--	NA	5,834	--	--	--
1970	4,172	45	4,415	682	653	4,170	4,767	14,687	41	--	--	--	NA	7,467	--	--	--
1975	2,816	37	3,128	1,184	460	7,611	4,682	17,064	38	--	--	--	NA	9,437	--	--	--
1980	3,538	55	3,573	1,312	278	5,203	5,917	16,282	27	--	--	--	NA	11,637	--	--	--
1985	4,219	51	3,389	1,707	686	3,408	6,831	16,021	27	--	--	--	NA	13,561	--	--	--
1990	4,641	75	3,625	1,526	705	2,853	7,184	15,893	0	--	--	--	(s)	16,399	--	--	--
1995	3,551	99	3,661	1,338	718	1,777	6,010	13,504	14	--	--	--	(s)	18,554	--	--	--
1996	3,594	86	4,366	1,349	766	1,790	6,166	14,437	9	--	--	--	(s)	19,021	--	--	--
1997	3,486	87	4,997	1,124	801	2,412	6,143	15,477	13	--	--	--	(s)	19,249	--	--	--
1998	3,385	94	4,431	884	794	2,012	6,614	14,735	11	--	--	--	(s)	20,024	--	--	--
1999	3,249	97	4,279	1,130	571	1,704	7,617	15,301	13	--	--	--	(s)	20,269	--	--	--
2000	3,425	78	4,857	1,945	569	1,867	6,401	15,639	13	--	--	--	(s)	20,619	--	--	--
2001	3,492	67	5,091	1,078	1,377	1,220	6,975	15,741	1	--	--	--	(s)	19,702	--	--	--
2002	3,382	77	4,570	1,727	1,392	686	6,178	14,553	2	--	--	--	(s)	19,521	--	--	--
2003	3,403	71	5,973	1,080	1,398	2,092	6,522	17,064	6	--	--	--	(s)	19,282	--	--	--
2004	3,230	76	6,758	766	1,741	2,446	6,821	18,532	(s)	--	--	--	(s)	19,734	--	--	--
2005	3,295	76	7,105	1,244	1,639	2,406	6,553	18,947	13	--	--	--	(s)	19,354	--	--	--
2006	3,068	74	6,872	1,455	1,732	1,126	6,847	18,032	6	--	--	--	(s)	18,998	--	--	--
2007	3,135	75	7,114	1,081	1,081	1,631	6,580	17,487	7	--	--	--	(s)	18,925	--	--	--
2008	3,125	67	6,807	667	817	2,005	5,358	15,654	9	--	--	--	(s)	18,438	--	--	--
2009	2,463	63	3,108	669	809	1,625	5,443	11,654	10	--	--	--	(s)	16,678	--	--	--
2010	2,773	68	2,419	646	971	1,476	R 5,118	R 10,629	12	--	--	--	(s)	17,141	--	--	--
2011	2,653	73	2,513	646	951	1,022	R 5,121	R 10,253	11	--	--	--	(s)	17,218	--	--	--
2012	2,475	80	2,822	630	959	855	R 4,612	R 9,878	12	--	--	--	(s)	17,316	--	--	--
2013	2,371	84	2,950	788	1,001	553	R 4,020	R 9,313	5	--	--	--	(s)	17,150	--	--	--
2014	2,128	88	3,097	917	960	274	R 4,045	R 9,293	10	--	--	--	(s)	17,701	--	--	--
2015	1,708	R 95	2,664	989	R 745	326	R 4,828	R 9,553	12	--	--	--	(s)	17,537	--	--	--
2016	1,629	96	2,825	897	739	349	4,678	9,488	9	--	--	--	(s)	17,648	--	--	--

Trillion Btu																	
1960	114.9	23.3	12.4	1.1	4.6	36.1	24.5	78.8	0.8	25.5	NA	NA	NA	12.9	256.3	31.9	288.2
1965	147.4	36.6	17.3	1.2	4.4	42.5	33.6	99.1	0.9	31.6	NA	NA	NA	19.9	335.5	47.5	383.0
1970	99.3	46.0	25.7	2.5	3.4	26.2	29.8	87.7	0.4	37.5	NA	NA	NA	25.5	296.3	61.6	358.0
1975	66.1	37.3	18.2	4.3	2.4	47.9	29.3	102.1	0.4	34.4	NA	NA	NA	32.2	272.5	77.2	349.7
1980	88.1	55.4	20.8	4.8	1.5	32.7	36.7	96.4	0.3	55.3	NA	NA	NA	39.7	335.1	95.4	430.5
1985	106.7	52.8	19.7	6.1	3.6	21.4	42.9	93.7	0.3	64.8	0.3	NA	NA	46.3	364.6	106.0	470.6
1990	117.9	78.4	21.1	5.4	3.7	17.9	45.7	93.9	0.0	66.1	0.2	0.0	(s)	56.0	412.4	131.7	544.1
1995	90.7	101.8	21.3	4.8	3.7	11.2	38.1	79.1	0.1	81.4	0.2	0.0	(s)	63.3	416.6	149.3	565.9
1996	91.9	88.9	25.4	4.8	4.0	11.3	38.8	84.3	0.1	82.2	0.1	0.0	(s)	64.9	412.1	152.4	564.5
1997	88.8	90.4	29.1	4.0	4.2	15.2	38.7	91.1	0.1	78.0	0.1	0.0	(s)	65.7	414.1	152.2	566.3
1998	86.8	98.2	25.8	3.1	4.1	12.6	41.7	87.4	0.1	76.3	0.1	0.0	(s)	68.3	417.1	157.6	574.7
1999	83.4	100.3	24.9	4.0	3.0	10.7	48.1	90.7	0.1	78.0	0.1	0.0	(s)	69.2	421.7	161.7	583.5
2000	91.5	80.8	28.3	6.9	3.0	11.7	40.5	90.3	0.1	78.2	0.1	0.0	(s)	70.4	411.2	165.3	576.5
2001	92.9	69.4	29.6	3.8	7.2	7.7	44.1	92.4	(s)	61.0	0.1	0.0	(s)	67.2	382.9	156.5	539.5
2002	88.9	79.7	26.6	6.1	7.3	4.3	38.6	82.9	(s)	42.4	0.1	0.0	(s)	66.6	360.6	156.4	517.0
2003	90.9	73.9	34.8	3.8	7.3	13.1	41.1	100.1	0.1	58.4	(s)	0.0	(s)	65.8	389.0	150.2	539.2
2004	86.1	77.9	39.3	2.7	9.1	15.4	43.5	109.9	(s)	64.0	0.0	0.0	(s)	67.3	405.2	156.0	561.2
2005	86.9	79.7	41.3	4.4	8.5	15.1	42.1	111.5	0.1	73.4	0.0	0.0	(s)	66.0	417.7	152.7	570.4
2006	80.6	76.9	39.9	5.2	9.0	7.1	43.5	104.6	0.1	69.9	0.0	0.0	(s)	64.8	396.9	149.9	546.8
2007	82.5	77.7	41.1	3.8	5.6	10.3	41.7	102.5	0.1	67.4	0.0	0.0	(s)	64.6	394.6	151.2	545.7
2008	81.8	69.6	39.3	2.3	4.2	12.6	33.6	92.1	0.1	65.3	0.0	0.0	(s)	62.9	371.8	147.6	519.4
2009	64.3	65.4	18.0	2.3	4.1	10.2	34.5	69.2	0.1	59.8	0.0	0.0	(s)	56.9	315.6	129.8	445.5
2010	72.7	70.1	14.0	2.5	4.9	9.3	R 33.0	R 63.7	0.1	R 53.1	0.0	0.0	(s)	58.5	R 318.2	132.9	R 451.1
2011	70.3	75.3	14.5	2.5	4.8	6.4	R 33.3	R 61.5	0.1	R 51.3	0.0	0.0	(s)	58.7	R 317.2	130.8	R 448.0
2012	67.6	82.7	16.3	2.4	4.9	5.4	R 30.0	R 58.9	0.1	R 51.7	0.0	0.0	(s)	59.1	R 320.2	127.3	R 447.5
2013	64.6	87.5	17.0	3.0	5.1	3.5	R 25.8	R 54.4	(s)	R 55.8	0.0	0.0	(s)	58.5	R 320.9	126.9	R 447.7
2014	58.4	92.3	17.9	3.5	4.9	1.7	R 25.9	R 53.9	0.1	R 60.0	2.3	0.0	(s)	60.4	R 327.4	129.9	R 457.3
2015	47.5	R 99.0	15.4	3.8	3.8	2.0	R 31.2	R 56.1	0.1	R 63.3	2.6	0.0	(s)	59.8	R 328.5	123.6	R 452.1
2016	45.7	100.5	16.3	3.4	3.7	2.2	30.2	55.9	0.1	58.2	1.3	0.0	(s)	60.2	321.8	120.3	442.1

<sup>a</sup> Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.

<sup>b</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

<sup>f</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>g</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

<sup>h</sup> Losses and co-products from the production of fuel ethanol.

<sup>i</sup> Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.

<sup>j</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

<sup>k</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

kWh = Kilowatthours. -- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.